

**MAGNETIC BEARING ASSEMBLY FOR A DATA HEAD**  
**ABSTRACT OF THE DISCLOSURE**

A magnetic bearing assembly, which includes magnetic bearing elements  
5 on a head suspension assembly and disc. The magnetic bearing elements of the  
magnetic bearing assembly are operable to provide a repulsion force between the  
head and the disc to provide a fly-height for read or write operations.  
Embodiments include active fly height measurement to control fly height  
parameters of the head.